What is claimed is:

- 1. A sensor comprising:
 - a substrate;
 - a pixel situated on a single level on the substrate; and
 - an electronics circuit situated on the single level.
- 2. The sensor of claim 1, wherein the pixel has a fill factor greater than 69 percent.
- 3. The sensor of claim 2, wherein the pixel is an infrared light detector.
- 4. The sensor of claim 3, wherein the substrate has a pit proximate to the pixel.
- 5. The sensor of claim 4, wherein the pixel has at least one via in the one level supporting the pixel.
- 6. The sensor of claim 5, wherein the electronics circuit comprises a FET circuit.
- 7. The sensor of claim 5, wherein the electronics comprises a bipolar transistor circuit.
- 8. The sensor of claim 6, wherein the electronics circuit comprises at least one small area FET.
- 9. The sensor of claim 8, wherein the electronics is CMOS circuitry.

- 10. The sensor of claim 9, wherein the pixel is a microbolometer.
- 11. A thermal sensor comprising:
 - a substrate; and

an array of pixels situated on the substrate; and wherein:

each pixel is located on a single level;
an electronic circuit is associated with each pixel;
and

each electronic circuit is located on the single level with the pixel.

- 12. The sensor of claim 11, wherein each pixel is an infrared light detector.
- 13. The sensor of claim 12, wherein each pixel is suspended over a pit in the substrate.
- 14. The sensor of claim 13, wherein each electronic circuit is CMOS FET circuitry.
- 15. The sensor of claim 14, wherein each pixel is a microbolometer.
- 16. A sensing means comprising:
 means for sensing infrared light;

- means for electronically processing signals related to infrared light sensed by the means for sensing infrared light; and
- means for supporting on one level the means for sensing infrared light and the means for electronically processing signals.
- 17. The means of claim 16, wherein the means for supporting on one level supports the means for sensing infrared light over a thermal isolating opening.
- 18. The means of claim 17, wherein the means for electronically processing signals has an area that is a fraction of the area of the means for sensing infrared light.
- 19. The means of claim 18, wherein the means for sensing infrared light is an array of pixels.
- 20. The means of claim 19, wherein:

 each pixel of the array of pixels is a microbolometer

 pixel comprising VO_x; and

 the means for electronically processing signals is

 small area transistor circuitry.
- 21. The means of claim 20, wherein the small area transistor circuitry is CMOS FET circuitry.
- 22. The means of claim 21, wherein:

the means for supporting on one level is a planar level substrate; and

the thermal isolating opening is a pit in the substrate under each pixel of the array of pixels.

23. A sensor comprising:

- a substrate;
- a pixel situated in a first plane relative to a surface of the substrate; and an electronics circuit situated in the first plane.

24. A thermal sensor comprising:

a substrate; and

an array of pixels situated on the substrate; and wherein:

each pixel is located on a first surface;
an electronic circuit is associated with each pixel;
and

each electronic circuit is located on the first surface proximate to the pixel.

25. A thermal sensor comprising:

a substrate; and

an array of pixels situated on the substrate; and wherein:

an electronic circuit is associated with each pixel; and

each electronic circuit is situated horizontally proximate to the pixel.

- 26. A thermal sensor comprising:
 a substrate; and
 an array of pixels situated on the substrate; and
 electronics situated on the substrate horizontally
 proximate to the array of pixels.
- 27. A sensing means comprising: means for sensing infrared light; means for electronically processing signals related to infrared light sensed by the means for sensing infrared light; and means for supporting on one surface the means for sensing infrared light and the means for electronically processing signals.
- 28. A sensing means comprising:

 means for sensing infrared light;

 means for electronically processing signals related to

 infrared light sensed by the means for sensing

 infrared light; and

 means for supporting the means for sensing infrared

 light and the means for electronically processing

 signals horizontally proximate to each other.
- 29. A sensing means comprising:
 means for sensing infrared light;

- means for electronically processing signals related to infrared light sensed by the means for sensing infrared light; and
- means for supporting in a plane the means for sensing infrared light and the means for electronically processing signals.